## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.		MR2863-8
First laventor		MIN-SHENG LIU, ET AL.
THE	FIN-TUBE HE	EAT EXCHANGER WITH

		TITIE   VORTEX GENERATOR		
(Only for new nonprov	risional applications under 37 CFR 1.5	3(b)) Express Mail Label No.		
See MPEP chapter 600 d	CATION ELEMENTS concerning utility patent application cor	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231		
1. X Specification (preferred arranges - Oescriptive to - Cross Refere - Statement R - Reference to or a computed - Brief Summa - Brief Summa - Brief Descriptive to - Claim(s) - Abstract of the statement of the statement R - Reference to or a computed - Background - Brief Summa - Brief Descriptive - Detailed Descriptive - Claim(s) - Abstract of the statement R - Reference to or a computed - Brief Summa - Brief Summa - Brief Summa - Brief Descriptive - Detailed Descriptive - Claim(s) - Abstract of the statement R - Reference to or a computed - Brief Summa - Brief Summa - Brief Descriptive - Detailed Descriptive - Detailed Descriptive - Claim(s) - Abstract of the statement R - Reference to or a computed - Brief Summa - Brief Summa - Brief Summa - Brief Descriptive - Detailed Descriptive - Detailed Descriptive - Reference - Reference - Statement R - Reference - Brief Summa - Brief Descriptive - Detailed Descriptive - Reference - Statement R - Brief Summa - Brief Summa - Brief Summa - Brief Summa - Brief Descriptive - Detailed Descriptive - Detailed Descriptive - Reference - Brief Summa - Brief Descriptive - Detailed Descriptive - Reference - Reference - Brief Summa - Brief Sum	al Form (e.g., PTO/SB/17) and a duplicate for fee processing) as small entity status. 27.  [Total Pages 13] itle of the invention ence to Related Applications egarding Fed sponsored R & D sequence listing, a table, er program listing appendix of the Invention try of the Invention tion of the Drawings (if filed) cription the Oisclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or computer		
Oath or Declaration  [ Total Pages 3 ]  a. X Newly executed (original or copy)  Copy from a prior application (37 CFR 1.63 (d))  (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S)  Signed statement attached deleting inventor(s)  named in the prior application, see 37 CFR  1.63(d)(2) and 1.33(b).  Application Data Sheet. See 37 CFR 1.76  12. Information Disclosure  Statement (IDS)/PTO-1449  Citations  13. Preliminary Amendment  Return Receipt Postcard (MPEP 503)  (Should be specifically itemized)  15. Certified Copy of Priority Document(s)  (if foreign priority is claimed)  16. Request and Certification under 35 U.S.C. 122  (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  17. Other:				
Continuation  Prior application information:  For CONTINUATION OR DIVIS Box 5b, is considered a part of	Divisional Continuation-in-part (  Examiner  IONAL APPS only: The entire disclosure of the accompanying correlled upon when a portion has been instituted in the continuation of the accompanying correlled upon when a portion has been instituted.	Supply the requisite information below and in a preliminary amendment,  Group Art Unit:  of the prior application, from which an oath or declaration is supplied under intinuation or divisional application and is hereby incorporated by reference, advertently omitted from the submitted application parts.		
Customer Number or Bar Co	ode Label	of X Correspondence address below		
Name	Morton J. Rosenberg,	Osg.		
Address City Country	Rosenberg, Klein & Le 3458 Ellicott Center Ellicott City	e		
Name (Print/Type)	Morton J. Rosenberg			
Signature	W-4 N	Registration No. (Attorney/Agent) 26,049		
orden Hour Statement: This form	1 pen Maserly	Date 26 Nov. 7000)		

is estimated to take 6.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application. Wasnington, DC 20231.

PTO/SB/17 (11-00)

for use through 10/31/2002. OMB 0651-0032 Office; U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trad Under the Paperwork Reduction Act of 1995, no persons are required to re

## FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

**TOTAL AMOUNT OF PAYMENT** 

(\$)	822.	.00
------	------	-----

espond to a collection of infor	mation unless it displays a valid OMB control humber			
Complete if Known				
Application Number				
Filing Date				
First Named Inventor	MIN-SHENG LIU, ET AL.			
Examiner Name				
Group Art Unit				
Attorney Docket No.	MR2863-8			

METHOD OF PAYMENT	FEE CALCULATION (continued)				
1. X The Commissioner is hereby authorized to charge deficiencies of fees and credit any overpayments to:	3. ADDITIONAL FEES	·-			
Deposit	Large Small Entity Entity				
Account Number 18–2011		ee Paid			
Account Rosenberg, Klein & Lee	105 130 205 65 Surcharge - late filing fee or oath				
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet				
Applicant claims small entity status.	139 130 139 130 Non-English specification				
See 37 CFR 1.27  2. X Payment Enclosed:	147 2,520 147 2,520 For filing a request for ex parte reexamination				
2. X Payment Enclosed:  X Check Credit card Money Other	112 920* 112 920* Requesting publication of SIR prior to Examiner action				
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action				
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month				
*Large Entity Small Entity	116 390 216 195 Extension for reply within second month				
∉ee Fee Fee Fee Description  Code (\$) Code (\$) Fee Paid	117 890 217 445 Extension for reply within third month	<u> </u>			
401 710 201 355 Utility filling for	118 1,390 218 695 Extension for reply within fourth month				
\$ 710 \$ 330 \$ 000 \$ 160 Design filing fee	128 1,890 228 945 Extension for reply within fifth month				
107 490 207 245 Plant filing fee	119 310 219 155 Notice of Appeal				
108 710 208 355 Reissue filing fee	120 310 220 155 Filing a brief in support of an appeal				
14 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing				
	138 1,510 138 1,510 Petition to institute a public use proceeding				
SUBTOTAL (1) (\$) \$ 710	140 110 240 55 Petition to revive - unavoidable				
2. EXTRA CLAIM FEES Fee from	141 1,240 241 620 Petition to revive - unintentional				
Extra Claims below Fee Paid	142 1,240 242 620 Utility issue fee (or reissue)				
Total Claims 24 -20** = 4 x 18 = 72	143 440 243 220 Design issue fee				
Independent 2 - 3** = 0 x 80 = -	144 600 244 300 Plant issue fee				
Multiple Dependent 270 = -	122 130 122 130 Petitions to the Commissioner				
	123 130 123 130 Petitions related to provisional applications				
Large Entity Small Entity Fee Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Disclosure Stmt				
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assignment per 4 property (times number of properties)	0.00			
102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))				
104 270 204 135 Multiple dependent claim, if not paid 109 80 209 40 ** Reissue independent claims	149 710 249 355 For each additional invention to be examined (37 CFR § 1.129(b))				
over original patent	179 710 279 355 Request for Continued Examination (RCE)				
110 18 210 9 ** Reissue claims in excess of 20 and over original patent	169 900 169 900 Request for expedited examination				
SUBTOTAL (2) (\$) 72.00	of a design application  Other fee (specify)				
SUBTOTAL (2)	40	00			
**or number previously paid, if greater: For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.				

SUBMITTED BY			Complete (if applicable)		
Name (Print/Type)	Morton J. Rosenberg	Registration No. (Attorney/Agent)	26,049	Telephone	410-465-6678
Signature	Morton Kosesley			Date	26 Dec. 2000

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card Information and authorization on PTO-2038.